## 503712593 02/26/2016

# PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name                     | Execution Date |
|--------------------------|----------------|
| HUMAX HOLDINGS CO., LTD. | 02/05/2016     |

## **RECEIVING PARTY DATA**

| Name:           | HUMAX CO., LTD.                                    |
|-----------------|--|
| Street Address: | YEONGMULRO 2 (YUBANG-DONG), CHEOIN-GU, GYEONGGI-DO |
| City:           | YONGIN   |
| State/Country:  | KOREA, REPUBLIC OF                                 |
| Postal Code:    | 13595  |

## **PROPERTY NUMBERS Total: 11**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 13819599 |
| Application Number: | 13824920 |
| Application Number: | 13877995 |
| Application Number: | 14360597 |
| Application Number: | 14360224 |
| Application Number: | 14368500 |
| Application Number: | 14616065 |
| Application Number: | 14427620 |
| Application Number: | 14432961 |
| Application Number: | 14432715 |
| Application Number: | 13812401 |

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| ATTORNEY DOCKET NUMBER: | K335EN-00000US |
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| NAME OF SUBMITTER:      | STEVE Y. CHO   |
| SIGNATURE:              | /STEVE Y. CHO/ |
| DATE SIGNED:            | 02/26/2016     |
| Total Attachments: 2    | •              |

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> **PATENT REEL: 037843 FRAME: 0860**

#### ASSIGNMENT OF PATENT APPLICATION

WHEREAS, HUMAX HOLDINGS CO., LTD. of Yeongmulro 2 (Yubang-dong), Cheoin-gu, Yongin-si, Gyeonggi-do, 13595, Republic of Korea, hereinafter referred to as "ASSIGNOR," is an assignee by assignment recorded in the U.S. Patent and Trademark Office of the inventions described and set forth in the applications for United States Letters Patent identified in the Appendix attached hereto;

WHEREAS, DaeGyu BYUN, CEO and authorized representative at HUMAX HOLDINGS CO., LTD. is a duly authorized representative of HUMAX HOLDINGS CO., LTD., having authority to sell, assign, and transfer to a third party the below-identified Applications for United States Letters Patent in the Appendix attached hereto.

WHEREAS HUMAX CO., LTD. of Yeongmulro 2 (Yubang-dong), Cheoin-gu, Yongin-si, Gyeonggi-do, 13595, Republic of Korea, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an entirety of ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has sold, assigned and transferred, and by these presents does sell, assign, and transfer unto the said Assignee, and Assignee's successors and assigns, 100% of their right, title, and interest in and to the said invention and application including any corresponding foreign application, and in and to any Letters Patent which may hereafter be granted on the same in the United States and any corresponding foreign application, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agree that they will, without charge to Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in Assignee, or Assignee's successors and assigns.

| indicated.    | IN TESTIMONY W | HEREOF, Assignor has signed this Assignment on the date |
|---------------|----------------|---|
|               |                | DosCrye By  |
| Date:February | -05-2016       | Name: DaeG/u BYUN<br>Title: CEO                         |

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## APPENDIX

| Title of Invention  | Application<br>Number | Filing Date          | Reel   | Frame |  |
|---|-----------------------|----------------------|--------|-------|--|
| METHODS OF TRANSMITTING AND<br>RECEIVING A MEDIA INFORMATION FILE<br>FOR HTTP STREAMING   | 13/819,599            | February 27,<br>2013 | 033499 | 0266  |  |
| PROCESSING METHOD TO BE<br>IMPLEMENTED UPON THE OCCURRENCE OF<br>AN EXPRESSION SWITCH IN HTTP<br>STREAMING                                | 13/824,920            | March 18,<br>2013    | 033499 | 0266  |  |
| METHOD FOR TRANSMITTING A SCALABLE HTTP STREAM FOR NATURAL REPRODUCTION UPON THE OCCURRENCE OF EXPRESSION-SWITCHING DURING HTTP STREAMING | 13/877,995            | April 5, 2013        | 033499 | 0266  |  |
| METHOD FOR HYBRID DELIVERY OF MMT PACKAGE AND CONTENT AND METHOD FOR RECEIVING CONTENT  | 14/360,597            | May 23,<br>2014      | 033499 | 0266  |  |
| METHOD FOR LINKING MMT MEDIA AND DASH MEDIA   | 14/360,224            | May 22,<br>2014      | 033499 | 0266  |  |
| METHOD AND DEVICE FOR ENCODING<br>THREE-DIMENSIONAL IMAGE, AND<br>DECODING METHOD AND DEVICE  | 14/368,500            | June 24,<br>2014     | 033499 | 0266  |  |
| CROSS-LAYER OPTIMIZATION METHOD IN A MULTIMEDIA TRANSMISSION SYSTEM   | 14/616,065            | February 6,<br>2015  | 035211 | 0543  |  |
| METHOD FOR ADAPTIVELY TRANSMITTING<br>FEC PARITY DATA USING CROSS-LAYER<br>OPTIMIZATION   | 14/427,620            | March 11,<br>2015    | 035224 | 0511  |  |
| METHOD FOR PREDICTING INTER-VIEW MOTION AND METHOD FOR DETERMINING INTERVIEW MERGE CANDIDATES IN 3D VIDEO                                 | 14/432,961            | April 1, 2015        | 035333 | 0288  |  |
| METHOD FOR INDUCING DISPARITY<br>VECTOR IN PREDICTING INTER-VIEW<br>MOTION VECTOR IN 3D PICTURE   | 14/432,715            | March 31,<br>2015    | 035333 | 0207  |  |
| CROSS-LAYER OPTIMIZATION METHOD IN<br>A MULTIMEDIA TRANSMISSION SYSTEM,<br>AND AN ABSTRACTION LAYER<br>COMPONENT FOR THE SAME             | 13/812,401            | January 25,<br>2013  | 033603 | 0777  |  |

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